# Fluidie Systems Design

By Charles A. Belsterling



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CHARLES A. BELSTERLING

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# Preface

Fluidic Systems Design was conceived and prepared to satisfy a widely recognized need for analytical methods for designing fluidic systems. Its primary purpose is to provide the control engineer with a unified set of analytical tools for the straightforward design of systems using fluidic devices. A second aim is to supply a universally acceptable vocabulary so that the control engineer, the fluidic device manufacturer, and the user's project engineer can communicate in a common language. In short, the intent is to bring together and make known the available techniques for describing fluidic components and for designing fluidic systems.

Most of the design methods described in this book are the result of a research program conducted since February 1963. At that time I was employed by the Franklin Institute Research Laboratories and was involved in the development of high-performance electric, hydraulic, and pneumatic control systems. We had been aware of the fluidics technology since its introduction by the Diamond Ordnance Fuze Laboratories (now Harry Diamond Laboratories) in 1959. At least one of our programs could have benefited from the unique features of fluidic devices. Therefore we began immediately to study their characteristics.

It did not take very long to discover that, first, the device manufacturers could not describe their components in terms familiar to control systems engineers and, second, that there were no proven methods for predicting the behavior of fluidic components connected together into control systems. I immediately prepared a detailed plan for a research program to correct this situation and was rewarded by financial support on a Laboratory-sponsored project. By October, I and my associate Kacheung Tsui had made enough progress to convince Harry Diamond Laboratories of the potential of the work. They provided the financial support and technical direction for the second phase.

After joining Giannini Controls Corporation (now Conrac Corporation) in July 1964, I was fortunate to enlist further support from the U.S. Army Aviation Materiel Laboratories. We completed the work on analog

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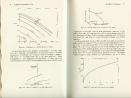
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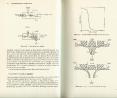












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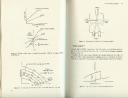
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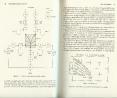
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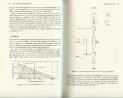
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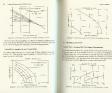


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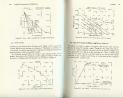
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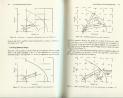
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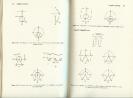
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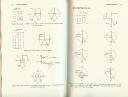


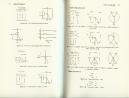








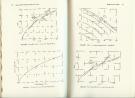


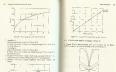












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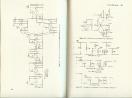
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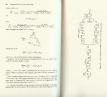


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